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Claims

I claim:



- 1. An imaging lidar comprising:
- a pulsed laser for generating a line scan of light beam pulses to illuminate an area surrounding a target;
 - a photomultiplier tube for detecting energy from said light beam pulses scattered by said target and for generating an output signal representative of said scattered light beam pulses;

an image acquisition controller coupled to said pulsed laser and to said photomultiplier tube for selecting pulse width and pulse rate of said light beam pulses and for generating a display signal from said output signal of said photomultiplier tube;

and a display coupled to said controller for generating an image from said display signal representative of said target.

2. The imaging lidar of claim 1 wherein said laser has a wavelength corresponding to a blue-green color.





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3. The imaging lidar of claim 1 wherein said pulse width is about 5 ns.



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- 4. The imaging lidar of claim 1 wherein said pulse rate is about 700 KHz.
- 5. The imaging lidar of claim 1 wherein said controller gates said output signal from said photomultiplier tube to select a range interval that includes said target.
- 6. The imaging lidar of claim 1 wherein said laser comprises a periodically poled crystal gain element for generating a laser output having a frequency that is a multiple of a pumping frequency.

